

wherein Q and Q' are cyanine dye forming aromatic or polyaromatic groups;

R₁ is -CH₂C₆H₄COOCH₃;

R₂ is selected from the group consisting of CH₂C₆H₄COOCH₃ and a linear C₁₋₁₈ alkyl group;

TCNQ is 7,7',8,8'-tetracyanoquinodimethane or a derivative thereof;

n is an integer of 0, 1, 2 and 3;

m is an integer of 1 or 2.

18(New). The cyanine dye-TCNQ dye complex of claim 17 of formula (I), wherein R₂ is CH₂C₆H₄COOCH₃.

19(New). The cyanine dye-TCNQ dye complex of claim 17 of formula (I) which is:

a complex (II) wherein R₂ is a linear butyl group, and n and m are 1;

a complex (III) wherein R₂ is CH₂C₆H₄COOCH₃ and n and m are 1;

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a complex (IV) wherein R₂ is CH₂C₆H₄COOCH₃ n is 2 and m is 1; or mixtures thereof, and in each complex (II), (III) and (IV), and Q and Q' each form a six member carbon containing aromatic ring.

20(New). The cyanine dye-TCNQ dye complex as claimed in claim 17 for use as a data storage medium having a reflection layer, wherein the reflection layer is selected from the group consisting of Au, Ag, Al, Cu, Cr and an alloys thereof.

21(New). The cyanine dye-TCNQ complex of claim 19 containing a combination of complex (II) and complex (IV), wherein the weight percentage of complex (IV) is from 0.5% to about 20%.

22(New). The cyanine dye complex of claim 21 wherein the weight percentage of complex (IV) to complex (II) is from 2% to 10%.

23(New). The cyanine dye-TCNQ complex of claim 19 containing a combination of complex (II) and complex (IV), wherein the weight percentage of complex (IV) is from 0.5% to about 20%, based on the total weight of the solution.

24(New). The cyanine dye-TCNQ complex of claim 19 containing a combination of complex (III) and complex (IV), wherein the weight percentage of complex (IV) to (III) is from 0.5% to about 20%.

25(New). The cyanine dye-TCNQ complex of claim 19 containing a combination of complex (III) and complex (IV), wherein the weight percentage of complex (IV) to (III) is from 2% to about 10%.

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26(New). The cyanine dye-TCNQ complex of claim 19 containing a combination of complex (III) and complex (IV), wherein the weight percentage of complex (III) to the total solution is from 0.5% to about 10%.

27(New). The cyanine dye-TCNQ complex of claim 19 containing a combination of complex (III) and complex (IV), wherein the weight percentage of complex (III) to the total solution is from 1% to about 5%.

28(New). The cyanine dye-TCNQ complex of claim 19 containing an organic solvent which is 2,2,3,3-tetrafluoropropanol, alcohol, ketone, ether, chloroform, dichloromethane, or DMF.

29(New). The cyanine dye-TCNQ dye complex of claim 17 of formula (I) for a data storage media further comprising a polymer resin and interfacial glue.